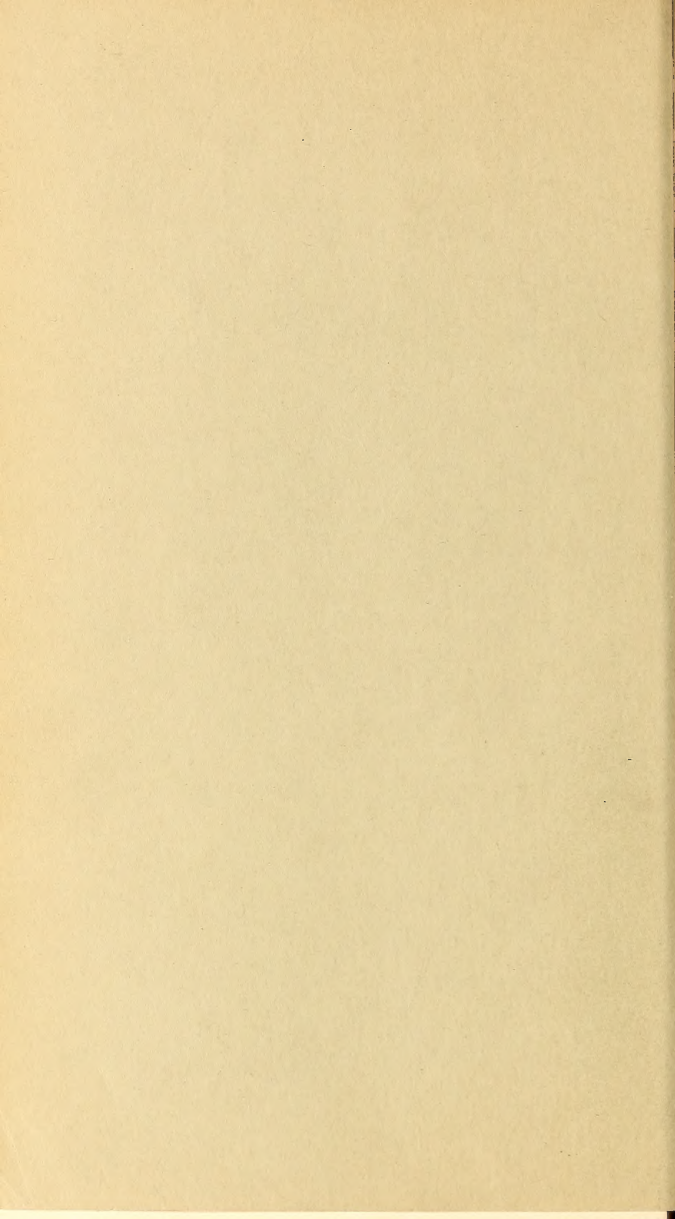


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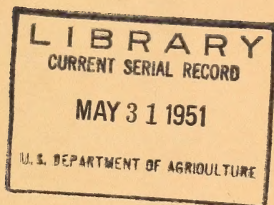


Washington, D. C.

Issued February 1951

A BIBLIOGRAPHY OF PLANT PATHOLOGY IN THE TROPICS AND IN LATIN AMERICA

Compiled
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PREFACE

This bibliography containing references on plant pathology in the tropics and Latin America covers the years 1937-1949. Subtropical regions have not been considered except in South America. Material prior to 1937 is contained in the following bibliographies:

- COOK, M. T. Host index of virus diseases of plants. P. R. U. J. Agr. 19:315-406. July 1935. 8 P32J
Sup. 1, P. R. U. J. Agr. 20:691-727. July 1936.
Sup. 2, P. R. U. J. Agr. 22:411-435. July 1938.
COOK, M. T. Index of the vectors of virus diseases of plants. P. R. U. J. Agr. 19:407-420. July 1935. 8 P32J
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Sup. 2, P. R. U. J. Agr. 22:437-439. July 1938.
HEALD, F. D. Manual of plant diseases. Ed. 2. New York, McGraw-Hill, 1933. Ref. 464 H34M
NEWHALL, A. G. An annotated bibliography of some of the more important papers on the Phytophthora pod rot of cacao (gleaned mostly from the Review of Applied Mycology 1922 to 1948, arranged chronologically). 21 p., processed, [1948?]
OTERO, J. I., and COOK, M. T. A bibliography of mycology and phytopathology of Central and South America, Mexico and the West Indies. P. R. U. J. Agr. 21:249-286. July 1937. 8 P32J
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Sup. 1, P. R. U. J. Agr. 19:129-313. Apr. 1935.
Sup. 2, P. R. U. J. Agr. 20:741-819. July 1936.
Sup. 3, P. R. U. J. Agr. 22:263-409. July 1938.
STEVENSON, J. A. Foreign plant diseases...a manual of economic plant diseases which are new to or not widely distributed in the United States. Washington, Govt. Print. Off., 1926. 198 p. 1 F31F

The arrangement is alphabetical by author. In the Index of Plant Diseases, diseases are grouped under the scientific name of the host plant as given in Standardized Plant Names. Cross references are made to the scientific name of the host from the common name in English, Spanish and Portuguese. When several diseases of one plant are discussed in one article or when the name of the disease is not known, the article is indexed under the subhead, diseases, which is further subdivided geographically. When diseases of several plants are discussed the publication is indexed under Plant diseases with geographical subdivisions. The index includes also the names of causal organisms.

The Name Index includes the names of secondary authors, editors, and any others, either persons or institutions, making a contribution to the publication indexed. Names used as subjects are included. Since the primary arrangement of the references is by author, the name of the first author of each publication is omitted from the Name Index.

Material which was not available for examination is marked with an asterisk (*).

Call numbers following the citations are those of the U. S. Department of Agriculture Library unless otherwise noted.

Grateful acknowledgment is made to Dr. Frederick L. Wellman, Field Consultant in Plant Pathology, Office of Foreign Agricultural Relations, U. S. Department of Agriculture, for his kind assistance and helpful suggestions.

Photoprint or microfilm copies of any items listed which are in the Library of the U. S. Department of Agriculture may be ordered from its Copying Service at the following prices:

Microfilm: \$1.00 for each 50 pages or fraction thereof from a single article or book.
Photoprint: \$1.00 for each ten pages or fraction thereof from a single article or book.

Sources Consulted

Catalogs

U. S. Department of Agriculture Card Catalog, including Plant Science and Plant Pathology catalogs.

Bibliographies

Bibliography of Agriculture, July 1942-June 1950.
International Institute of Agriculture. Bibliography of Tropical Agriculture, 1937-1942.
Plant Science Literature, 1937-1942.

INTRODUCTION

No bibliography can be absolutely complete or up-to-date at publication when it deals with an active subject in the process of rapid development. At the very moment the bibliographers complete lists for printing or reference, more contributions will have appeared. There is also the danger of missing the obscurely published articles that remain hidden from view. Every care was exercised by Miss Barnes and Miss Allen to obviate these probabilities in their compilation of the literature on tropical and Latin American plant pathology. The result is, it is believed, that this is the best bibliography on that subject at present. It will be of interest and considerable assistance for many years to come, to pathologists everywhere, in the North Temperate Zone regions as well as in the world of the Tropics and in Latin America.

It might be well to define the geographical region that comprises the phrase "the Tropics and in Latin America" as it is used here. There had to be a limitation of some sort within which to confine the work. No attempt was made to include publications regarding North Temperate Zone questions that were applicable to tropical or Latin American problems. Such inclusions would have made the compilers' tasks almost endless. As it is, it required almost four years of work for Miss Allen who started it, and later Miss Barnes who took over the responsibility and completed the labor. During these years the bibliographers had to attend to many other duties and compile other lists, meanwhile piling up the references they sought on this subject. It will be seen that the majority of the citations are of Western Hemisphere origin and of research published from below subtropical United States. All of Latin America is included, although it involves the Temperate Zone areas of southern South America and the cool, high plateaus and mountainous portions of the Tropics. Citations were also gathered, however, from workers in the Tropics of the Eastern Hemisphere.

The list here presented grew out of the recognitions of its great need in Latin America during the last 10 years. I was first interested in such a bibliography in 1929, but could never expend the time to develop it. Some years later it was cheering to learn from Dr. Mel T. Cook, himself in the Tropics, that such a list was being prepared. This finally appeared from Puerto Rico. The efforts of Cook and Otero were, and still are, invaluable. A much greater body of tropical workers has been publishing in the last 15 years, and some most inspiring work in the Tropics and Latin America has occurred since that time. Knowing how much the lists of Cook and Otero filled the need at that earlier time, it was considered both by the researchers and the bibliographers sufficient to start with 1937, and bring the compilation up to include 1950. He who wants to refer to works before that time will need to refer to the lists by Cook and Otero.

The bibliography by Miss Barnes and Miss Allen puts into the present day researcher's hands 76 pages of listed references. These are made up of 2395 citations with numerous very useful, succinct annotations. This list is a welcome tool by which the earnest student and investigator in the subject can find pertinent literature citations. He can likewise discover that the literature in the original, or as abstracts in review journals, is of great interest as an indication of progress. It is apparent, for one thing, that in many respects we in the Tropics and in Latin America are in enviable positions. Plant pathology is, in many cases, at approximately the same stage in progress as it was in the Temperate Zone at about the beginning of the century. Of course, in some of the more favored spots progress is much better than that, but in some places it is even less. On the whole, the person who is at work today in the Tropics is treading on what will later be holy ground, for he is laying the foundations for the science of the future. What is being done now, and what is being planned, will color the body of that science for generations to come.

It is, however, not altogether to the future that we must look. It is impressive to study the older works. As one becomes more and more familiar with earlier published tropical experience he discovers that there has been much fine, modestly presented study in the past. One is bound at times after he knows and appraises them to feel that many of the investigations that were carried on in Latin America, in its Tropics, Subtropics, and temperate regions, have perhaps been given too little recognition in centers of teaching and study in the Temperate Zone of either Europe or North America. Part of this is neglect, part is due to language differences, and part to obscurity of publication media. One of the desirable end products of this bibliography is that it will result in a better distribution of information concerning that which has already been done. Things will no longer be hidden that are included in it since copies of the cited papers can be referred to or obtained from or in the Library of the United States Department of Agriculture in Washington. Anyone can secure them. This bibliography will perform a useful service also in indicating the professionally employed people, the institutions, and the areas where further contributions are being made in increasing quantity and quality.

It is clear that much of the basic knowledge of plant pathology has been brought to its present high state in the Temperate Zone. This will inevitably continue. Nevertheless, it needs to be known that there is also growing up a large body of knowledge worked out in, and applicable specifically to the Tropics. Temperate Zone pathologists in many places are, on the whole, much more advantageously furnished with better and newer equipment and materials for study and control of diseases. They enjoy larger subsidies for their work than are usually found in other parts of the world and are, also, solving their problems through researchers and control practices in the midst of a comparatively wealthy economy.

Tropical pathologists in many cases find it necessary to work with almost nothing, and sometimes even against opposition from superstition or the lack of an understanding public, although it would gain greatly by research. Often special tools for disease control are practically nonexistent. In addition, when, from reference to Temperate Zone experience, chemical means of combating plant disease losses are a logical indication in the Tropics, they often cannot be used. This may be directly due to high cost of transportation of foreign chemicals and equipment, and the presence of labor that is not only illiterate but through tradition is unprepared to use the more highly technological methods. There are likewise to be considered ecologic factors of the Tropics such as excess rains, seasons prolonged mistiness, high relative humidities, steep slopes of fields, and extensive growth of crops under shade of jungle and planted trees.

It behooves the thoughtful worker in the Tropics to re-study disease problems that have previously been well solved for the Temperate Zone. He has to come to grips with the matter of plant disease control by farming people living in a difficult environment made more troublesome because of lack of human requisites. He must often devise a system to reduce disease losses through some well studied changes in simple cultural practices. Wherever possible he must take advantage of natural means of ameliorating disease effects without recourse to costly treatments and chemical applications. For such reasons it may well be that the Latin American or tropical pathologist has to indeed become more conversant with finer details of phenomena in plant disease problems than his Temperate Zone colleagues. Such considerations make compilation of this bibliography of even greater value to tropical workers than the same kind of a compilation would have for workers in the Temperate Zone. It seems not unlikely as time goes on and more work is done in the Tropics that the greatest contributions regarding such phases of life histories of disease organisms, host-parasite relations, disease resistance, and human factors related to plant disease control practices, will come from the Tropics and from the well-trained but less-specialized researchers such as must develop in less favored areas.

I have found an increasingly large group of tropical plant pathologists that is impatient with Temperate Zone pathologists who seemingly disregard publications from tropical work. They hold that studies from the Temperate Zone are quoted freely in the Tropics, but the reverse is not likely to occur. They believe it unfortunate for students in the Temperate Zone. Much of this is due to oversight, and that will undoubtedly be obviated to a large extent by the use of this bibliography. While it was prepared in the Library of the United States Department of Agriculture, it can be seen at a glance that it has regional but no linguistic or national boundaries. It is also obvious that tropical pathologists have not always been in close enough touch with each other. The use of this bibliography will reduce the problem of obscurity and help in intercommunication of scientific results in the area it covers and as well the rest of the world.

In closing, I wish to express the appreciation of many pathologists in different areas who have awaited the bibliography while it was in preparation. Its appearance will fill a great need and good use will be made of it. I have been helped by both Miss Allen and Miss Barnes for a long time in my library contacts. This has occurred to many others in the Tropics, and this bibliography is, in a sense, a culmination of these efforts and a forehanded answer that the bibliographers must have known would come to them sooner or later. It is, I believe, a notable step in the history of the subject, and will be a force in the stimulation of even more discriminative research in plant pathology in Equatorial Regions.

Frederick L. Wellman

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February 16, 1951

Compiled by Helen V. Barnes and Jessie M. Allen, Bibliographers
Library, United States Department of Agriculture

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587. COSTA, A. S., and FORSTER, R. Nota sobre a molestia de virus do fumo denominada faixa das nervuras. *Bragantia* 2:55-82, illus. Feb. 1942. 102.5 B73Tb

588. COSTA, A. S., and SOUZA, O. F. DE. Nota sobre a verrugosa do amendoimzeiro. *Biológico* 7:347-349, illus. Dec. 1941. 442.8 B529

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592. COSTA, A. S. Observações sobre viracabeça em tomates. *Bragantia* 4:489-507, illus. Aug. 1944. 102.5 B73Tb

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A note from the Department of Genetics, Instituto Agronomico de Campinas, São Paulo, Brazil.

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Informe del Departamento de Fitopatología y Sanidad Vegetal, by R. Méndez C. On diseases of banana, cacao, bean, maize, tobacco, citrus, sugarcane, rice, coffee, potato, and apple.

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600. COUCEIRO, G. M. F. Notas acerca da ocorrência do "anel vermelho" e do "mal da folha curta" nos coqueirais do estado do Pará. *Pernambuco, Sec. de Agr., Indus. e Com. B.* 16:70-74, illus. Jan./June 1949. 9.2 P423

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601. COUCEIRO, E. M. Sclerotium rots of Sacc., *Sclerotium* juncea Lin. *Pernambuco, Sec. de Agr., Indus. e Com. B.* 14:55-57, illus. Jan./Mar. 1947. 9.2 P423

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Uredinea spinulosa.

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Contribution from the Centro Nacional de Agronomía.

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1569. NEWHALL, A. G. An annotated bibliography of some of the more important papers on the Phytophthora pod rot of cacao (gathered mostly from Review of Applied Mycology 1922 to 1948, arranged chronologically). n. p., 1949? 21 p. 464.1 N45

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1571. NICOLINI, J. C. "Gloeosporiosis" de la oliva. IDIA, Inform. de Invest. Agr. 2(20):15-16. Aug. 1949. 9 Jd3

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1572. NICOLINI, J. C. Un grave y raro ataque de "tuberculosis" sobre frutos de olivo. IDIA, Inform. de Invest. Agr. 2(18):14. illus. Apr. 1949. 9 Jd3

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1576. NOBREGA, N. R., and SILBERSCHMIDT, K. Estudios sobre o estado sanitario de algumas variedades de batatinhas peruanas. Biológico 7:243-248, illus. Sept. 1941. 442.8 B529

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1578. NOLL, W. Deformaciones provocadas en los gémenes del trigo por los tratamientos de la semilla. Arch. Fitotec. del Uruguay 3:86-95, illus. 1938. 102.5 Ur8A

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1579. NOLL, W. Le pietin del trigo (*Ophiobolus graminis* Sacc.) en el Uruguay. Arch. Fitotec. del Uruguay 3: 96-101, illus. 1938. 102.5 Ur8A

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1581. NORMANHA, E. S., BOOCK, O. J., and CASTRO, J. B. DE. Observações de campo como contribuição ao estudo do superbrotoamento ou envassouramento da mandioca. Rev. de Agr. [Piracicaba] 21:271-302, illus. July/Aug. 1946. 9.2 R324

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1583. NOVELO F., E. El chacle o enfermedad de las vetas rojas. Un alerta a los cultivadores de maíz. Fomento 1(7):26. May 1, 1944. 8 F734

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1584. NOVELO F., E. Hacia su aparición dos peligrosas plagas en las plantaciones de maíz. Fomento [monthly], 21:8-20. July 1945. 8 F734

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1585. NOWELL, W. Internal boll disease. Empire Cotton Growing Rev. 16:18-24. Jan. 1939. 72.8 Em7 In Africa.

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1587. OBREGON BOTERO, R. Algunas enfermedades de las plantas en la zona frutera de Boyacá. Colombia. U. Nac. Facul. Nac. de Agron. Rev. 5:594-633. 1942. 9.4 C717

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1588. OBREGON BOTERO, R. Algunas enfermedades en nuestros árboles frutales y en la caña de azúcar. Rev. de Agr. y Com. [Panamá] 3(15):57-60. July 1944. 8 R3291

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1589. OBREGON BOTERO, R. Apartes del informe sobre reconocimiento fitopatológico del quindío (Caldas). Rev. Cafetera de Colombia 6:2186-2188, illus. May/July 1937. 68.28 R32

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1596. OBREGON BOTERO, R. La stenosis, un achicamiento y arrugamiento del algodón. Bogotá, Imprenta Nacional, 1940. 16 p., illus. 64.042 Ob6

A physiological disease of cotton and its control.

1597. OCFEMIA, G. O. The abaca-disease situation in Davao. Philippine Agr. 26:229-236, illus. Aug. 1937. 25 P542

The abaca diseases in Davao are bunchy-top, mosaic-like disease, and banana-wilt-like disease; recommendations for control.

1598. OCFEMIA, G. O. A banana disease destructive to abaca at high elevations in Davao. Agr. & Indus. Mon. [Manila] 4(10):8-9, illus. July 1937. 25 Ag82

Until the fungus on abaca in Davao is definitely identified with *Fusarium oxysporum* Schl. f. 3. Wr., the third abaca disease will be referred to as "banana-wilt-like disease."

Bunchy-top and mosaic-like diseases are the other two mentioned.

1599. OCFEMIA, G. O., MACASAPAC, I. S., and YUCAN, H. F. Experimental transmission of the mosaic of *Canna indica*. Philippine Agr. 30:357-374, illus. Oct. 1941. 25 P542

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1600. OCFEMIA, G. O. Fiji disease of sugar cane: symptoms, transmission, and methods of eradication are discussed. Agr. Indus. Mon. [Manila] 6(2):34-35, illus. Nov. 1938. 25 Ag82

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resistant varieties				Cintractiella lamii			

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